

# Work Order ID 83689

April-23-12 3:58:26 PM

**\*83689\***

Page 1

Item ID: D350-689-023

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Energy Attenuating Floor Provisions

Start Date: 23/04/2012 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 07/05/2012 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: MLJ

Date: 12/04/24 Tooling:

Date:

Run Start **\*NR1\***

QC:

Date: SPC (Y/N):

Date:

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
DSI 9588	A
IIN-D350-689	B

100 0.00

**\*100\***

DOCUMENT CONTROL

DC Memo 0.00

Document Control Photocopy bluefile and create labels per PPP D350-689-023 CHG004

*JB 5 12/06/11*

*Form MLJ 12-6-11*

110 0.00

**\*110\***

Pick Kit

Packaging Memo 0.00

Packaging

*12/06/08 JB*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 83689**

April-23-12 3:58:26 PM

**\*83689\***

Page 2

Item ID: D350-689-023

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Item Name: Energy Attenuating Floor Provisions

Stop **\*NS2\***Start Date: 23/04/2012 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 07/05/2012 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: Date: Tooling: Date:

Run Start **\*NR1\***

QC: Date: SPC (Y/N): Date:

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC4- 100% Inspect kits for completeness	0.00							
<b>*120*</b>									
QC	Memo	0.00		5/12/06/14		(XU)			
Quality Control									
130		0.00							
<b>*130*</b>	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D350-689-023								
	Location: 12								
	PPP Rev: C								
140	QC21- Final Inspection - Work Order Release	0.00							
<b>*140*</b>									
QC	Memo	0.00							
Quality Control									

12-06-12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

April-23-12 3:58:30 PM

Page 1

Work Order ID: 83689

Parent Item: D350-689-023

Parent Item Name: Energy Attenuating Floor Provisions

\*83689\*

\*D350-689-023\*

Start Date: 23/04/2012

Required Date: 07/05/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 08-12-23 new issue DD verified by:EC  
revise route seq DD 10.02.12 verified by:JLM  
11.09.28 verified by:JLM  
CHG004 (ecn12-501) DD VERF:EC  
IPP Rev:B  
IPP Rev:C chg003 DD  
IPP Rev:D 12.01.12 now @

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4575-1 5 *D4575-1* Beam		Manufactured	No			110	Each	4.0000	0 **	1	JB		
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST135F		4							
				79965		4			79965				
D4575-3 5 *D4575-3* Doubler		Manufactured	No			110	Each	6.0000	0 **	1	JB		
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST197		6							
				79969		6			79969				
D3027-7 6 *D3027-7* Clip		Manufactured	No			110	Each	21.0000	4 **	4	JB		
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST023		21							
				70582		21			70582				
D3811-041 6 *D3811-041* Seat Track Assembly		Manufactured	No			110	Each	3.0000	0 **	1	JB		12/06/08
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST262		3							
				73447		3			73447				

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

April-23-12 3:58:30 PM

Page 2

Work Order ID: 83689

\*83689\*

Parent Item: D350-689-023

\*D350-689-023\*

Parent Item Name: Energy Attenuating Floor Provisions

Start Date: 23/04/2012

Required Date: 07/05/2012

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

110

Each

3,534.000

\*\*

9

9

✓

\*MS21042L3\*

Nut

## Location

## Loc Qty

## Loc Code

ST300

3534

117441

16

117885

32

118451

5

118927

3

119017

1394

119075

158

121349

926

1214444

1000

121349

MS24694-S50

Purchased

No

110

Each

167.0000

\*\*

9

9

✓

\*MS24694-S50\*

Screw

## Location

## Loc Qty

## Loc Code

ST289

67

116900

1

118078

1

119124

65

ST289A

100

121166

100

121166

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

April-23-12 3:58:30 PM

Page 3

Work Order ID: 83689

\*83689\*

Parent Item: D350-689-023

\*D350-689-023\*

Parent Item Name: Energy Attenuating Floor Provisions

Start Date: 23/04/2012

Required Date: 07/05/2012

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0363J

Purchased

No

110

Each

1,982.000

9

✓

\*NAS1149D0363.1\*

Washer

\*\*

121524 JB

12/06/08

*[Handwritten signature]*

Location

Loc Qty

Loc Code

ST298

1982

117601

61

118077

1

118612

18

119537

33

120142

76

120308

46

120644

248

121243

1499

April-23-12 3:58:30 PM

Shop Packet Print

Page 3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D205-634 REV. G,  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D205-634 REV. 4 OR EARLIER,  
REF. TCCA STC SH96-88  
REF. FAA STC SR00563NY  
REF. EASA STC EASA.IM.R.S.01303

## 1.0 PURPOSE

The purpose of this DSI is to update the Weight and Balance for D205-634-111 @ CHG 003 or later.

## 2.0 CHANGE

IS

INSTALLATION	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D205-634-111 Skidtube Installation (High Gear)	51.6 lb 23.4 kg	+/- 55 in +/- 1.40 m	+/- 2838 in lb +/- 32.8 m kg	108.9 in 2.77 m	5619 in lb 64.8 m kg
D205-634-111 Skidtube Installation (Standard Gear)	51.6 lb 23.4 kg	+/- 50 in +/- 1.27 m	+/- 2580 in lb +/- 29.7 m kg	108.9 in 2.77 m	5619 in lb 64.8 m kg
D205-634-111 Skidtube Installation (412CF Gear)	51.6 lb 23.4 kg	+/- 47.0 in +/- 1.19 m	+/- 2425 in lb +/- 27.8 m kg	108.9 in 2.77 m	5619 in lb 64.8 m kg

WAS

INSTALLATION	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D205-634-111 Skidtube Installation (High Gear)	44.2 lb 20.0 kg	± 55 in ± 1.40 m	± 2431 lb-in ± 28.0 kg-m	108.9 in 2.77 m	4813 lb-in 55.4 kg-m
D205-634-111 Skidtube Installation (Standard Gear)	44.2 lb 20.0 kg	± 50 in ± 1.27 m	± 2210 lb-in ± 25.4 kg-m	108.9 in 2.77 m	4813 lb-in 55.4 kg-m
D205-634-111 Skidtube Installation (412CF Gear)	44.2 lb 20.0 kg	± 47.0 in ± 1.19 m	± 2077 lb-in ± 23.8 kg-m	108.9 in 2.77 m	4813 lb-in 55.4 kg-m

SHOP COPY  
RETURN TO  
ENGINEERING  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 83689  
12/04/24  
ML5

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 12.02.21  
CERT. NO.: SH96-88  
ISSUE NO.: 3

A	NEW ISSUE	RF	12.02.21
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9598	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		WEARPLATE WEIGHT CHANGE	NTS
DATE	12.02.21	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

#### 4. WEIGHT AND BALANCE

The following weight and balance information is for the Dart Dual High Back Seat Installation. The weight and balance of the parts that are removed from the aircraft to perform this installation are the responsibility of the installer.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-689-011 Dual High Back Seat Installation, Fwd Position	27.6 lb 12.5 kg	-18.2 in -0.46 m	-502 in-lb -5.8 m-kG	60.7 in 1.54 m	1675 in-lb 19.3 m-kG
D350-689-013 Floor Provisions Kit, Fwd Position	2.0 lb 0.9 kg	-18.2 in -0.46 m	-36 in-lb -0.4 m-kG	60.7 in 1.54 m	121 in-lb 1.4 m-kG
D350-689-011 Dual High Back Seat Installation, Aft Position	28.1 lb 12.7 kg	-18.2 in -0.46 m	-511 in-lb -5.8 m-kG	63.7 in 1.62 m	1790 in-lb 20.57 m-kG
D350-689-013 Floor Provisions Kit, Aft Position	3.1 lb 1.4 kg	-18.2 in -0.46 m	-56 in-lb -0.6 m-kG	62.2 in 1.58 m	193 in-lb 2.2 m-kG
D350-689-015 Seat Modification Kit	1.0 lb 0.5 kg	-17.2 in -0.44 m	-17 in-lb -0.22 m-kG	60.7 in 1.54 m	61 in-lb 0.77 m-kG
D350-689-017 Shoulder Harness, Fwd Position	4.4 lb 2.00 kg	-18.2 in -0.46 m	-80.1 in-lb -0.92 m-kG	60.7 in 1.54 m	267 in-lb 3.08 m-kG
D350-689-017 Shoulder Harness, Aft Position	4.4 lb 2.00 kg	-18.2 in -0.46 m	-80.1 in-lb -0.92 m-kG	64.7 in 1.64 m	285 in-lb 3.28 m-kG
D350-689-019 Control Guard, Fwd Position	0.5 lb 0.23 kg	-9.0 in -0.23 m	-4.5 in-lb -0.05 m-kG	60.7 in 1.54 m	30 in-lb 0.35 m-kG
D350-689-019 Control Guard, Aft Position	0.5 lb 0.23 kg	-9.0 in -0.23 m	-4.5 in-lb -0.05 m-kG	64.7 in 1.64 m	32 in-lb 0.38 m-kG
D350-689-021 Dual High Seat Back Installation, LH Fwd Position	29.2 lb 13.2 kg	-18.2 in -0.46 m	-531 in-lb -6.1 m-kG	60.7 in 1.54 m	1772 in-lb 20.3 m-kG
D350-689-021 Dual High Seat Back Installation, LH Aft Position	29.2 lb 13.2 kg	-18.2 in -0.46 m	-531 in-lb -6.1 m-kG	64.7 in 1.64 m	1889 in-lb 21.6 m-kG
D350-689-023 Energy Attenuating Floor Provisions Kit	2.5 lb 1.1 kg	-18.2 in -0.46 m	-46 in-lb -0.5 m-kG	62.2 in 1.58 m	156 in-lb 1.7 m-kG

#### 5. PARTS LIST

Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Qty -021	Qty -023	Qty -041	Qty -043	Part Number	Description
X									D350-689-011	DUAL HIGH BACK SEAT INSTALLATION, LH
1	X								D350-689-013	FLOOR PROVISIONS KIT
		X							D350-689-015	SEAT MODIFICATION KIT
			X						D350-689-017	SHOULDER HARNESS KIT
				X					D350-689-019	CONTROL GUARD KIT
					X				D350-689-021	DUAL HIGH BACK SEAT INSTALLATION, LH
					1	X			D350-689-023	ENERGY ATTENUATING FLOOR PROVISIONS KIT
1							X		D350-689-041	DUAL HIGH BACK SEAT ASSEMBLY
					1			X	D350-689-043	DUAL HIGH BACK SEAT ASSEMBLY
							2	2	D3016-041	SEAT FRAME ASSEMBLY
							1	1	D3017-041	BACK FRAME ASSEMBLY
1					1				D3018-1	SEAT CUSHION
1					1				D3019-1	BACK CUSHION
							1	1	D3021-041	TUBE ASSEMBLY
							1	1	D3022-1	SEAT PAN
							1	1	D3023-1	BACK PANEL
							3	3	D3024-1	SPACER
	1								D3025-1	BEAM

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Revision: **B**

Date: 11.07.22

Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Qty -021	Qty -023	Qty -041	Qty -043	Part Number	Description
	1					1			D3026-1	CHANNEL
	1								D3027-1	CLIP
	1								D3027-3	CLIP
	1								D3027-5	CLIP
	4					4			D3027-7	CLIP
							4		D3028-1	STUD
		2					2		D3029-1	SPRING
		2					2		D3030-1	LOCK
							2	2	D3031-1	LOOP
	1								D3032-1	SPACER
	2	1							D3033-1	SEAT TRACK
		4							D3059-1	STUD
		4							D3060-1	BUSHING
		4							D3061-1	RADIUS BLOCK
				1					D3084-3	STRUT
	1								D3234-1	DOUBLER
	1					1			D3234-3	DOUBLER
	2								D3234-5	SPACER
								2	D3808-041	SEAT RAIL ASSEMBLY
								4	D3809-1	SLIDING BLOCK
						1			D3811-041	SEAT TRACK ASSEMBLY
			2						D4071-041	SHOULDER HARDNESS ASSY
							3	3	AN3-12A	BOLT
				1					AN4-12A	BOLT
				1					AN4-20A	BOLT
			2						AN5-4A	BOLT
							40	40	MS20600AD4W2	RIVET
							6	6	MS20600AD4W3	RIVET
						9	17	17	MS21042L3	NUT (OR MS21042-3)
				2			6	6	MS21042L4	NUT (OR MS21042-4)
			2						MS21042L5	NUT (OR MS21042-5)
12	4								MS21059L3	NUTPLATE
							4	4	MS24693-S272	SCREW
2	1								MS24693-S273	SCREW
								8	MS24694-S3	SCREW
									MS24694-S50	SCREW
								4	MS24694-S148	SCREW
6	3								MS27039-1-10	SCREW
							4	4	MS27039-1-17	SCREW
							6	6	MS27039-1-19	SCREW
							6	6	MS27039-4-21	SCREW
6	3						17	17	NAS1149D0332J	WASHER (OR AN960JD10L)
						9			NAS1149D0363J	WASHER (OR AN960JD10)
				8					NAS1149D0416J	WASHER (OR AN960JD416L)
							6	6	NAS1149D0432J	WASHER (OR AN960JD416)
			4						NAS1149D0516J	WASHER (OR AN960JD516L)
		4							NAS1149D0563J	WASHER (OR AN960JD516)
				2					NAS43DD4-46N	SPACER

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Revision: B

Date: 11.07.22

#### 4.0 PARTS LIST CHANGE

The parts list of D350-689-021/-023 at CHG 005/004 or later is amended as follows:

5. PARTS LIST (IIN-D350-689)  
25.10 PARTS LIST (ICA-D350-689)


**IS:**






Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Qty -021	Qty -023	Qty -041	Qty -043	Part Number	Description
X									D350-689-011	DUAL HIGH BACK SEAT INSTALLATION, LH
1	X								D350-689-013	FLOOR PROVISIONS KIT
		X							D350-689-015	SEAT MODIFICATION KIT
			X						D350-689-017	SHOULDER HARNESS KIT
				X					D350-689-019	CONTROL GUARD KIT
					X				D350-689-021	DUAL HIGH BACK SEAT INSTALLATION, LH
					1	X			D350-689-023	ENERGY ATTENUATING FLOOR PROVISIONS KIT
1							X		D350-689-041	DUAL HIGH BACK SEAT ASSEMBLY
					1			X	D350-689-043	DUAL HIGH BACK SEAT ASSEMBLY
	1								D3026-1	CHANNEL (REMOVED FROM -023)
	1								D3234-3	DOUBLER (REMOVED FROM -023)
						1			D4575-1	BEAM (REPLACES D3026-1 IN -023)
						1			D4575-3	DOUBLER (NEW IN -023)

**WAS:**

Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Qty -021	Qty -023	Qty -041	Qty -043	Part Number	Description
X									D350-689-011	DUAL HIGH BACK SEAT INSTALLATION, LH
1	X								D350-689-013	FLOOR PROVISIONS KIT
		X							D350-689-015	SEAT MODIFICATION KIT
			X						D350-689-017	SHOULDER HARNESS KIT
				X					D350-689-019	CONTROL GUARD KIT
					X				D350-689-021	DUAL HIGH BACK SEAT INSTALLATION, LH
					1	X			D350-689-023	ENERGY ATTENUATING FLOOR PROVISIONS KIT
1							X		D350-689-041	DUAL HIGH BACK SEAT ASSEMBLY
					1			X	D350-689-043	DUAL HIGH BACK SEAT ASSEMBLY
	1					1			D3026-1	CHANNEL
	1					1			D3234-3	DOUBLER

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

**APPROVED**  
BY:   
D. SHEPHERD (DE # 02)  
DATE: 11.12.23  
CERT. NO.: SH02-33  
ISSUE NO.: 1

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